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(54) ORGANIC ELECTROLUMINESCENT ELEMENT AND ITS MANUFACTURE

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an organic electroluminescent element which has high luminescent intensity even if a driving voltage is low, and excellent durability while allowing high luminous energy to be extracted from it.

SOLUTION: This element 104 is composed by providing a structure wherein at least a positive electrode layer 10, a positive hole injection layer 12, an organic luminescent layer 14 and a negative electrode layer 16 are sequentially laminated. In this case, the positive hole injection layer 12 is formed of an n-type inorganic semiconductor material, and when it is assumed that the Fermi energy of the positive hole injection layer 12 is Φh and the Fermi energy of the positive electrode

layer 10 is Φa , the relationship of $\Phi h > \Phi a$. should be satisfied, and the value of the absorption coefficient of the n-type inorganic semiconductor material should be set to 1×104 cm-1 or less.

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